O. H. M. S.

W. J. Gerald

Deputy Minister.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 181

ARSENIC, AS AN IMPURITY IN DRUGS.

3060—1

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OTTAWA, June 8, 1909.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—In the year 1900 there occurred in Manchester, England, a large number of cases of arsenical poisoning. It was discovered that the poison was present in beer which had been made from commercial glucose. Other sources of arsenic in beer were found in malt which had been dried in kilns to which gases from pyritous coal had access. Further research showed that decided traces of arsenic occurred in many chemical products whose manufacture involved the use of sulphuric acid; it being already known that crude sulphuric acid (oil of vitriol) is usually contaminated with arsenic.

For the information of this Department there were examined at that time a number of samples of drugs, as found on the Canadian market, for the purpose of ascertaining whether any of these contained distinct traces of arsenic. While most samples were practically free from the poison, it was found that arsenic was distinctly present in certain sulphates, and particularly in phosphate of soda. The amounts were not so large as to be alarming; but were sufficient to make it impossible to regard these drugs as meeting pharmacopoeal requirements.

The present bulletin contains a report upon 448 samples of sulphate of magnesia, sulphate of soda and phosphate of soda, three drugs which are as likely as any to contain arsenic as an impurity. It is satisfactory to find that on the total of 448 samples, 336

contain no arsenic, 86 contain less than one-half of a milligram per hundred grams, twenty less than one milligram and six over one milligram, divided as follows :—

—	Arsenic.				Total.
	None.	Less than one-half milligram per hundred grams.	Less than one milligram per hundred grams.	More than one milligram per hundred grams.	
Sulphate of Magnesia	120	26	4	0	150
Sulphate of Soda	99	35	10	6	150
Phosphate of Soda	117	25	6	0	148
	336	86	20	6	448

The British Pharmacopœia fixes the dose of Arsenious Acid at $\frac{1}{60}$ to $\frac{1}{15}$ of a grain, corresponding to 0·001 and 0·004 milligrams.

The maximum single dose for each of the three salts mentioned is 14·2 grams and, as the largest amount of arsenic found is 10·5 milligrams per one hundred grams, it follows that not more than one and one-half milligram could have been absorbed, which would not be considered a dangerous dose, four (4) milligrams being allowed.

I beg to recommend the publication of this report as Bulletin No. 181.

I have the honour to be, sir,
Your obedient servant,

ALP. LEMOINE,
Acting Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.	DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.								
April 15	Sulphate of Magnesia (Epsom Salts).	33927	A. H. Buckley, Halifax, N.S.	½ lb.	5	National Drug and Chemical Co., Halifax, N.S.		None	33927
" 16	" "	33928	J. R. Rawley, Halifax, N.S.	½ "	5	" "		"	33928
" 16	" "	33929	A. A. Thompson, Halifax, N.S.	½ "	5	" "		"	33929
" 16	" "	33930	M. D. Logan, Halifax, N.S.	½ "	5	" "		"	33930
" 17	" "	33931	Nat. Drug and Chem. Co., Halifax, N.S.	½ "	5	Vendors		"	33931
" 17	" "	33932	T. M. Power & Son, Halifax, N.S.	½ "	5	National Drug and Chemical Co., Halifax, N.S.		"	33932
" 19	" "	33933	L. C. Gardner, Yarmouth, N.S.	½ "	5	Can. Drug Co., St. John, N.B.		"	33933
" 20	" "	33934	J. D. Clarke, Kentville, N.S.	½ "	5	National Drug and Chemical Co., Halifax, N.S.		"	33934
" 22	" "	33935	A. E. Smith, Truro, N.S.	½ "	5	Unknown		"	33935
" 23	" "	33936	J. McD. Taylor, Halifax, N.S.	½ "	5	National Drug and Chemical		"	33936
1909.	DISTRICT OF PRINCE EDWARD ISLAND—THOS. MOORE, INSPECTOR.								
April 7	Sulphate of Magnesia (Epsom Salts).	31488	John F. McNeill, Summerside.	½ lb.	5	National Drug and Chemical Co., Halifax, N.S.		None	31488
" 7	" "	31489	McFadyen & McLellan, Summerside.	½ "	5	Can. Drug Co., St. John, N.B.		"	31489
" 8	" "	31490	Sinclair & Stewart, Summerside.	½ "	5	L. Chaput, Fils & Co, Montreal.		"	31490
" 8	" "	31491	Jardine & Bernard, Kensington.	½ "	5	Can. Drug Co., Halifax		"	31491
" 12	" "	31492	W. H. Pigott, Mount Stewart.	½ "	5	Carnell Bros., Charlottetown.		"	31492

" 13	"	" ..	31493	Mrs. D. Gordon, Georgetown.	½ " ..	6	Northrop & Lyman Co., Ltd., Toronto.	.....	"	31493
" 15	"	" ..	31494	Johnson & Johnson, Charlottetown.	½ " ..	5	Lyman & Son, Montreal...	.....	"	31494
" 15	"	" ..	31495	C. D. Rankin, Charlottetown.	½ " ..	5	" " ..	.....	"	31495
" 15	"	" ..	31496	J. G. Jamieson, Charlottetown.	½ " ..	5	" " ..	.....	"	31496
" 15	"	" ..	31497	M. Duffy & Son, Charlottetown.	½ " ..	8	Nicholson & Brock, Toronto	.....	"	31497

1909. DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar. 24	Sulphate of Magnesia (Epsom Salts).		29922	Burpee E. Brown, St. John, N.B.	3pkgs.	15	National Drug and Chemical Co., Ltd., St. John, N.B.	.....	Less than 1 milligram....	29922
" 25	"	" ..	29923	R. H. Robb, St. John, N.B.	¼ lb..	5	" " ..	.....	None.....	29923
April 6	"	" ..	29924	Chas. A. Burchill, Fredericton, N.B.	½ " ..	5	" " ..	.....	Less than ½ milligram....	29924
" 6	"	" ..	29925	Hunt & McDonald, Fredericton, N.B.	½ " ..	10	" " ..	.....	" ½ "	29925
" 7	"	" ..	29926	C. A. McKeen, Woodstock, N.B.	½ " ..	5	Can. Drug Co., St. John, N.B.	.....	" 1 "	29926
" 14	"	" ..	29927	D. J. Sharp, Sussex, N.B.	½ " ..	5	National Drug and Chemical Co., St. John, N.B.	.....	None.....	29927
" 15	"	" ..	29928	Francis McKay, Moncton, N.B.	½ " ..	5	F. G. Reid & Co., Moncton, N.B.	.....	"	29928
" 17	"	" ..	29930	A. Chipman Smith & Co., Bathurst, N.B.	¼ " ..	5	Vendors.....	.....	"	29930
" 19	"	" ..	29931	A. McG. McDonald, Campbellton, N.B.	3pkgs.	15	Howard & Sons, London, Eng.	.....	"	29931
" 15	"	" ..	29939	G. O. Spencer, Moncton, N.B.	½ lb..	5	Can. Drug Co., St. John, N.B.	.....	Less than ½ milligram....	29939

1909. DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

April 20	Sulphate of Magnesia (Epsom Salts).		36701	V. Giroux, Quebec	½ lb..	5	Lymans Ltd., Montreal	.....	None.....	36701
" 20	"	" ..	36702	Laroche & Co., Quebec..	½ " ..	5	Lyman & Sons, Montreal...	.....	"	36702
" 20	"	" ..	36703	R. B. Roger, Quebec....	½ " ..	15	Nat. Drug Co., Montreal...	.....	"	36703
" 20	"	" ..	36704	H. Wellis, Quebec	1 " ..	15	Unknown.....	.....	"	36704
" 20	"	" ..	36705	T. E. Dubé, Quebec ..	1 " ..	10	"	.....	"	36705
" 21	"	" ..	36706	A. L. Jolicoeur, Quebec.	1 " ..	10	Lyman & Sons, Montreal...	.....	"	36706
" 21	"	" ..	36707	F. E. Gauvreau & Frères, Quebec.	1 " ..	10	" " ..	.....	"	36707
" 20	"	" ..	36898	W. Brunette & Cie, Quebec.	½ " ..	5	Unknown.....	.....	"	36898
" 20	"	" ..	36899	L. E. Martel, Quebec....	½ " ..	5	Langlois & Paradis, Quebec.	.....	"	36899
" 20	"	" ..	36900	D. R. Gagnon, Quebec..	½ " ..	10	Lyman Knox, Montreal ...	.....	"	36900

Date of Collection.	Nature of Sample.	No. of Sample.	Name and address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.	DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.								
April 21	Sulphate of Magnesia (Epsom Salts).	1034	G. P. Sabourin, St. Jean	½ lb ..	8	Lymans Ltd., Montreal		None	1034
" 27	" " ..	1035	Dr. Mignault, Actonvale	½ " ..	5	Unknown		"	1035
" 29	" " ..	1036	Dr. Belleau, Arthabaskaville.	½ " ..	8	Pharmacie Brunet, Quebec		"	1036
May 5	" " ..	1037	Pharmacie Chagnon, Sherbrooke.	½ " ..	5	Lymans Ltd., Montreal		"	1037
" 5	" " ..	1038	W. J. H. McKindsey, Lennoxville.	½ " ..	10	Lymans Ltd., Montreal		"	1038
" 11	" " ..	1039	Dr. Gelinas, St. Guillaume.	½ " ..	7	Laporte, Martin & Co., Montreal.		"	1039
" 18	" " ..	1040	Dr. Sylvestre, Sorel	½ " ..	5	National Drug Co., Montreal.		"	1040
" 25	" " ..	1041	Dr. J. A. Viger, St. Hyacinthe.	½ " ..	5	Lymans Ltd., Montreal		"	1041
" 25	" " ..	1042	Phar. Brodeur, St. Hyacinthe.	½ " ..	5	National Drug Co., Montreal.		"	1042
" 25	" " ..	1043	C. H. Welch, Waterloo.	½ " ..	5	Unknown		"	1043
1909.	DISTRICT OF MONTREAL—J. J COSTIGAN, INSPECTOR.								
April 19	Sulphate of Magnesia (Epsom Salts).	40061	J. A. Godbout, 278 Craig St., Montreal.	½ lb ..	8	Lymans Ltd		Less than ½ milligram	40061
" 19	" " ..	40062	Arthur Maillet, 621 Craig St., Montreal.	½ " ..	5	Unknown		None	40062
" 19	" " ..	40063	A. E. Gravelle, 542 St. Catherine, Montreal.	½ " ..	5	"		"	40063
" 23	" " ..	40064	Dr. J. E. St. Onge, Valleyfield, P.Q.	½ " ..	5	Lymans Ltd		"	40064
" 23	" " .	40065	A. D. Munn, 201 St. Antoine St., Montreal.	½ " ..	5			Less than ½ milligram	40065
" 26	" " ..	40066	A. L. Boucher, Joliette	½ " ..	5			None	40066

"	26	"	"	..	40066	A. L. Boucher, Joliette..	½ " ..	5	.....	.....	None.....	40066
May	4	"	"	..	40067	John T. Lyons Co., Ltd., Montreal.	½ " ..	5	.....	.....	"	40067
"	4	"	"	..	40068	Leo. G. Ryan, Montreal.	½ " ..	5	.....	.....	"	40068
"	4	"	"	..	40069	J. A. Asselin, Montreal..	½ " ..	10	Lymans Ltd.....	.....	"	40069
"	4	"	"	..	40070	Louis Fortin, Montreal..	3 pkgs	10	.....	.....	"	40070

1909. **DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.**

Mar.	16	Sulphate of Magnesia (Epsom Salts).			22941	Pharmacie Canadienne, Hull, P.Q.	½ lb ..	5	Unknown.....	.....	Less than ½ milligram....	22941
"	19	"	"	..	22942	F. W. Warwick, Buckingham.	½ " ..	5	Lyman Knox, Montreal....	.....	None.....	22942
"	22	"	"	..	22943	Dr. A. Lyon, Shawville..	½ " ..	5	Lymans Ltd., Montreal....	.....	"	22943
"	23	"	"	..	22944	J. Clark, Renfrew, Ont..	½ " ..	5	" " "	.....	Less than ½ milligram...	22944
"	23	"	"	..	22945	J. M. Plaunt, Ltd., Renfrew, Ont.	½ " ..	5	National Drug & Chem. Co., Ottawa.	.....	" ½ " ..	22945
"	24	"	"	..	22946	Jos. Valiquette Co., Ltd. Cor. York & Dalhousie Sts., Ottawa.	½ " ..	5	Provost & Allard, Ottawa..	.....	" ½ " ..	22946
"	24	"	"	..	22947	Jos. P. Valiquette, Clarence & Dalhousie Sts., Ottawa.	½ " ..	5	National Drug & Chemical Co., Ltd., Ottawa.	.....	None.....	22947
"	24	"	"	..	22948	Thos. Payment, Ottawa.	½ " ..	5	Ottawa Drug Co., Ottawa..	.....	"	22948
"	26	"	"	..	22949	E. R. DesRosiers, Rideau St., Ottawa.	½ " ..	5	Ottawa Drug Co., Ottawa..	.....	"	22949
"	26	"	"	..	22950	Lucie W. H. Roger, Ottawa.	½ " ..	5	Unknown.....	.....	"	22950

1909. **DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.**

Mar.	17	Sulphate of Magnesia (Epsom Salts).			39471	H. Skinner, Kingston...	½ lb ..	5	National Drug Co.....	.....	Less than ½ milligram....	39471
"	17	"	"	..	39472	A. P. Chown, " ..	½ " ..	5	Lyman & Sons, Montreal...	.....	" ½ " ..	39472
"	18	"	"	..	39473	W. W. Gibson, " ..	½ " ..	5	National Drug Co.....	.....	None.....	39473
"	22	"	"	..	39474	F. C. Clarke, Belleville..	½ " ..	5	Unknown.....	.....	"	39474
"	22	"	"	..	39475	R. Templeton, " ..	½ " ..	5	Lyman & Sons, Montreal...	.....	"	39475
"	22	"	"	..	39476	O. G. Johns, Cobourg...	½ " ..	5	Howard, England....	.....	"	39476
"	22	"	"	..	39477	A. J. Gould, " ..	½ " ..	5	Lyman & Sons, Montreal...	.....	"	39477
"	22	"	"	..	39478	C. J. Webster, " ..	½ " ..	5	E. G. West, Toronto.....	.....	Less than ½ milligram....	39478
"	23	"	"	..	39479	McDermid & Jury, Peterboro.	½ " ..	5	Jury & Lovell, Bowmanville	.....	" 1 " ..	39479
"	23	"	"	..	39480	L. A. Payne, Peterboro..	½ " ..	5	Drug Trading Co., Toronto.	.....	" ½ " ..	39480

BULLETIN No. 181—SULPHATE OF MAGNESIA (EPSOM SALTS)—*Continued.*

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Mame and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.			DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.						
April 7	Sulphate of Magnesia (Epsom Salts).	36226	Chas. T. Laird, Hamilton	½ lb.	5	J. Winer & Co., Hamilton		Less than ½ milligram	36226
" 8	" "	36227	R. A. Smith, Newmarket.	½ "	5	Unknown		None	36227
" 13	" "	36228	Wm. Crossland, Barrie	½ "	5	Drug Trading Co., Toronto		"	36228
" 14	" "	36229	Golding Co., Tottenham	½ "	5	Nat. Drug and Chemical Co., Ltd., Toronto.		"	36229
" 16	" "	36230	G. A. Ramsden, Georgetown.	½ "	5	" " "		"	36230
" 17	" "	36231	Geo. Marshall & Co., Toronto.	½ "	5	The Drug Trading Co., Ltd., Toronto.		"	36231
" 17	" "	36232	J. A. Thompson, Toronto.	½ "	5	Vendor		"	36232
" 17	" "	36233	W. J. Mitchell, Toronto.	½ "	5	Drug Trading Co., Ltd., Toronto.		"	36233
" 19	" "	36234	W. H. Summerfeldt, Toronto.	½ "	5	" "	"Howards"	"	36234
" 19	" "	36235	W. M. Maltby, Toronto	½ "	5	Lyman Bros. & Co., Ltd., Toronto.		"	36235
1909.			DISTRICT OF LONDON—T. KIDD, INSPECTOR.						
Mar. 29	Sulphate of Magnesia (Epsom Salts).	30605	Chas. Aberhart, Seaforth	½ lb.	5	Lyman Bros., Toronto		None	30605
" 29	" "	30606	W. A. McConnell, Clinton.	1 "	10	National Drug Co., London, Ont.		Less than ½ milligram	30606
" 31	" "	30612	J. J. McEwin, Goderich	¾ "	5	Elliot, Mar & Co., London, Ont.		None	30612
April 7	" "	30631	W. A. McIntyre, St. Mary's.	¾ "	11	National Drug Co., London, Ont.		Less than ½ milligram	30631
" 7	" "	30633	Frank H. Smith, St. Mary's.	¾ "	5	Lyman Bros., Toronto, Ont.		None	30633
" 7	" "	30634	J. McClean, St. Mary's	¾ "	5	" "		"	30634

"	7	"	" ..	30634	J. McClean, St. Mary's..	¾ " ..	5	"	" ..	.....	" 30634
"	7	"	" ..	30636	W. R. Burcher " ..	¾ " ..	4	Gorman Eckert, London....	.....	"	30636
"	7	"	" ..	30637	A. Beattie & Co., " ..	¾ " ..	4	Unknown.....	.....	"	30637
"	7	"	" ..	30638	G. P. McCartney, Stratford.	¾ " ..	4	Kerry, Watson & Co., London, Ont.	.....	"	30638
"	7	"	" ..	30639	J. J. Doyle, Stratford...	¾ " ..	5	Unknown.....	.....	Less than ½ milligram...	36639

1909. DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

April	8	Sulphate of Magnesia (Epsom Salts).		34780	N. W. Emerson, London, Ont.	½ lb..	5	National Drug Co.....	.....	None.....	34780
"	8	"	" ..	34783	Callard & McLachlan, London, Ont.	½ " ..	10	Unknwon.....	.....	"	34783
"	8	"	" ..	34788	A. J. Ormond, London, Ont.	½ " ..	8	National Drug Co.....	.....	Less than ½ milligram ...	34788
"	10	"	" ..	34792	Bruce Wallace, London Ont.	½ " ..	10	"	.....	" " ..	34792
"	14	"	" ..	34795	H. J. Foster, St. Thomas	½ " ..	5	" London.	.....	None.....	34795
"	14	"	" ..	34798	Fred W. Judd " ..	½ " ..	5	" "	.....	Less than ½ milligram....	34798
"	15	"	" ..	35905	R. L. Cowan, Strathroy.	½ " ..	5	Gorman Eckert Co., London, Ont.	.....	None.....	35905
"	15	"	" ..	35906	D. Graham " ..	½ " ..	5	A. M. Smith & Co., London, Ont.	.....	"	35906
1	15	"	" ..	35907	Jas. Noble " ..	½ " ..	5	Todhunter & Mitchell, Toronto.	.....	"	35907
"	16	"	" ..	35912	J. E. Roome, Glencoe...	½ " ..	5	Unknown.....	.....	"	35912

1909. DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

April	19	Sulphate of Magnesia (Epsom Salts).		35836	Sherrin & Co., Carberry.	½ lb..	5	The Bole Drug Co,, Winnipeg.	.....	None.....	35836
"	20	"	" ..	35837	Dunkin's Drug Store, Portage la Prairie.	½ " ..	5	Lyman Sons, Montreal.....	.....	"	35837
"	21	"	" ..	35838	A. M. Sutherland, Elmwood P.O., Winnipeg.	½ " ..	5	Unknown.....	.....	"	35838
"	23	"	" ..	35839	Pulford Drug Store, Carman.	½ " ..	5	"	.....	"	35839
"	23	"	" ..	35840	Sanders Drug Store, Carman.	½ " ..	5	Martin, Bole, Wynne Co., Winnipeg.	.....	"	35840
"	24	"	" ..	34841	Elm Creek Drug Store, Elm Creek.	½ " ..	5	" " ..	.....	"	35841
"	26	"	" ..	35842	Cowan & Hays, Deloraine.	½ " ..	5	Unknown.....	.....	"	35842
"	26	"	" ..	35843	C. E. Hasselfield, Deloraine.	½ " ..	5	Lyman Bros., Toronto.....	.....	"	35843
"	27	"	" ..	35844	Napinka Drug Hall, Napinka.	½ " ..	5	Uuknown.....	.....	"	35844
"	29	"	" ..	35845	The Clarendon Pharmacy, Winnipeg.	½ " ..	10	The Bole Drug Co., Winnipeg.	.....	"	35845

BULLETIN No. 181—SULPHATE OF MAGNESIA (EPSOM SALTS).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Result of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.	DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.								
April 27	Sulphate of Magnesia (Epsom Salts).	35501	G. M. Cawker, Medicine Hat.	½ lb	10	Lyman Sons & Co., Montreal		None	35501
" 27	" "	35502	C. S. Pringle, Medicine Hat.	½ "	10	Lyman Sons & Co., Montreal		"	35502
" 27	" "	35503	B. F. Souch, Medicine Hat.	½ "	10	Nat. Drug & Chemical Co., Winnipeg.		"	35503
" 29	" "	35504	G. H. Graydon, Edmonton.	½ "	15	Howard & Son., London, Eng.		"	35504
" 29	" "	35505	T. G. Carson, Edmonton.	½ "	10	Martin Bole & Wynne		"	35505
" 29	" "	35506	A. Archibald, Edmonton.	½ "	10	Lyman Sons & Co., Montreal		"	35506
" 29	" "	35507	Algonquin Pharmacy, Edmont on	½ "	35	A. Macdonald & Co., Edmonton		"	35507
" 29	" "	35508	Edmonton Drug Co., Edmonton.	½ "	10	Lyman Sons & Co., Montreal		"	35508
" 29	" "	35510	J. H. Lives, Edmonton.	½ "	10	Unknown		"	35510
" 29	" "	35531	E. M. Carpenter Edmonton.	½ "	10	Bale Drug Co., Calgary		"	35531
1909.	DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.								
March 6	Sulphate of Magnesia (Epsom Salts).	37604	M. S. MacDowell, North Vancouver.	½ lb	25	Henderson Bros., Vancouver		Less than ½ milligram	37604
" 6	" "	37605	Marrett & Reid, Hasting St., Vancouver.	½ "	10	" "		" ½ "	37605
" 6	" "	37606	Marrett & Reid, Arcade St., Vancouver.	½ "	25	" "		None	37606
" 6	" "	37607	E. S. Knowlton, Vancouver.	½ "	10	" "		Less than ½ milligram	37607
" 6	" "	37608	Central Drug Store, Vancouver.	½ "	10	" "		" " "	37608

"	25	"	"	37609	Owl Drug Store, Vancouver.	½ "	15	"	"	" " "		37609
"	25	"	"	37610	McDuffee Bros., & Co., Vancouver.	½ "	10	"	"	Nope		37610
"	25	"	"	37611	R. G. Wood, Vancouver.	½ "	15	"	"	"		37611
"	27	"	"	37612	L. G. Henderson, Vancouver.	½ "	20	"	"	Less than 1 milligram		37612
"	27	"	"	37613	Red Cross Drug Store, Vancouver.	½ "	10	"	"	" ½ "		37613

1909. DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

May	11	Sulphate of Magnesia (Epsom Salts).		39331	F. J. Williams, Victoria, B.C.	½ lb	15	Henderson Bros., Victoria, B. C.		None		39331
"	11	"	"	39332	Dean & Hiscocks, Victoria, B.C.	½ "	5	"	"	"		39332
"	11	"	"	39333	Wm. Jackson & Co., Victoria, B.C.	½ "	15	"	"	"		39333
"	12	"	"	39334	D. E. Campbell, Victoria, B.C.	½ "	10	"	"	"		39334
"	12	"	"	39335	W. S. Terry, Victoria, B.C.	½ "	10	"	"	"		39335
"	13	"	"	39336	John Cochrane, Victoria, B.C.	½ "	10	"	"	"		39336
"	13	"	"	39337	Cyrus H. Bowes, Victoria, B.C.	½ "	10	"	"	"		39337
"	13	"	"	39338	Geo. A. Fraser, Victoria, B. C.	½ "	10	"	"	"		39338
"	13	"	"	39339	B. C. Drug Co., Victoria, B. C.	½ "	10	"	"	"		39339
"	13	"	"	39340	Thos. Shotbolt, Victoria, B. C.	½ "	10	Baiss Bros & Stephensor, London, Eng.		"		39340

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Result of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.	DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.								
April 16	Sulphate of Soda (Glauber's Salt).	33942	G. A. Burbidge, Halifax, N.S.	½ lb	5	Nat. Drug and Chem. Co., Halifax, N.S.		Less than 1 milligram	33942
" 17	" "	33943	Nat. Drug and Chem. Co., Halifax, N.S.	½ "	5	Nat. Drug and Chem. Co., Montreal.		None	33943
" 17	" "	33944	C. A. Munford, Halifax, N.S.	½ "	10	Nat. Drug and Chem. Co., Halifax.		"	33944
" 19	" "	33945	B. F. Trask, Yarmouth, N.S.	½ "	5	Can. Drug Co., St. John, N.B.		"	33945
" 20	" "	33946	G. C. McDougall, Kentville, N.S.	½ "	5	Unknown		"	33946
" 22	" "	33947	Hub Drug Store, Truro, N.S.	½ "	5	Nat. Drug and Chem. Co., Halifax.		"	33947
" 22	" "	33948	Crowe Bros., Truro, N.S.	½ "	5	" "		"	33948
" 22	" "	33949	Truro Drug Co., Truro, N.S.	½ "	10	" "		"	33949
" 23	" "	33950	E J. Butler, Dartmouth, N.S.	½ "	5	" "		"	33950
" 23	" "	33951	M. P. McCaffrey, Halifax, N.S.	½ "	10	" "		"	33951
1909.	DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.								
April 7	Sulphate of Soda (Glauber's Salt).	38501	John T. McNeill, Summerside.	½ lb	6	Nat. Drug Co., Halifax		None	38501
" 7	" "	38502	P. N. Enman, Summerside.	½ "	10	" "		Less than ½ milligram	38502
" 7	" "	38503	McFadyen & McLellan, Summerside.	½ "	10	Can. Drug Co., St. John		None	38503
" 8	" "	38504	Jardine & Bernard, Kensington.	½ "	8	Nat. Drug Co., Halifax		"	38504
" 12	" "	38505	John Knight, Georgetown.	½ "	5	" "		Less than ½ milligram	38505

" 12	"	" ..	38505	John Knight, Georgetown.	½ " ..	5	"	" ..	...	...	
" 15	"	" ..	38506	A. W. Reddin, Charlottetown.	½ "	10	"	" ..	...	Contains 5·3 milligrams.	38506
" 15	"	" ..	38507	G. E. Hughes, Charlottetown.	½ " .	5	Lyman Sons & Co., Montreal.	...	None		38507
" 15	"	" ..	38508	McDonald & McKinnon, Charlottetown.	½ " ..	15	Lymans Ltd., Montreal	...	"		38508
" 15	"	" ..	38509	Reddin Bros., Charlottetown.	½ " .	8	Lyman Sons & Co., Montreal.	...	Less than ½ milligram.		38509
" 15	"	" ..	38510	Gillis & Sons, Charlottetown.	½ " ..	5	Nat. Drug Co., Halifax	...	None		38510

1909. DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar. 25	Sulphate of Soda (Glauber's Salt).		29932	George P. Allen, St. John, N.B.	½ lb ..	10	Unknown	...	None		29932
" 26	"	" ..	29933	Frank E. Porter, St John, N.B.	½ " ..	5	The Nat. Drug and Chem. Co., Ltd., St. John, N.B.	...	Contains 3·2 milligrams.		29933
April 6	"	" ..	29934	C. Fred. Chesnut, Fredericton, N B.	½ " ..	6	Unknown	...	Less than ½ milligram		29934
" 7	"	" ..	29935	The Baird Co., Ltd., Woodstock, N.B.	½ " ..	6	Lymans Ltd., Montreal	...	Less than 1 milligram		29935
" 7	"	" ..	29936	D. W. C. Stevens, Woodstock, N.B.	½ " ..	10	The Can. Drug Co., St. John, N.B.	...	Less than ½ milligram		29936
" 14	"	" ..	29937	G. M. Fairweather, Sussex, N.B.	½ " ..	5	The Nat. Drug Co., Halifax, N.S.	...	None		29937
" 15	"	" ..	29938	Dr. O. E. Steeves, Moncton N.B.	½ " ..	5	The Can. Drug Co., St. John, N.B.	...	"		29938
" 15	"	" ..	29939	J. McD. Cooke, Moncton, N.B.	½ " ..	5	The Nat. Drug Co., St. John, N.B.	...	Less than ½ milligram		29939
" 16	"	" ..	29941	A. E. Shaw, Newcastle, N.B.	½ " ..	5	The Can. Drug Co., St. John, N.B.	...	None		29941
" 19	"	" ..	29953	John White, Campbellton, N.B.	½ " ..	5	The Nat. Drug Co., St. John, N.B.	...	Less than ½ milligram		29953

1909. DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

April 20	Sulphate of Soda (Glauber's Salt).		36708	W. Brunette & Cie, Quebec.	½ lb ..	10	Howard's, England	...	None		36708
" 20	"	" ..	36709	L. E. Martel, Quebec	½ " ..	5	Lymans Ltd., Montreal	...	Less than ½ milligram		36709
" 20	"	" ..	36710	D. R. Gagnon, Quebec	½ " ..	10	Lyman Knox, Montreal	...	None		36710
" 20	"	" ..	36711	V. Giroux, Quebec	½ " ..	5	" "	...	Less than ½ milligram		36711
" 20	"	" ..	36712	Laroche & Co., Quebec	½ " ..	10	Lyman & Son, Montreal	...	None		36712
" 20	"	" ..	36713	R. B. Roger, Quebec	1 " ..	50	Merck, Germany	...	"		36713
" 20	"	" ..	36714	H. Wellis, Quebec	1 " ..	35	Nat. Drug Co., Montreal	...	"		36714
" 20	"	..	36715	T. E. Dubé, Quebec	1 " .	45	Merck, Germany	...	Less than ½ milligram		36715
" 21	"	..	36716	A. L. Jolicoeur, Quebec	1 " ..	20	Unknown	...	Less than 1 milligram		36716
" 21	"	..	36717	F. E. Gauvreau, Quebec	1 " .	45	Lyman & Son, Montreal	...	" " "		36717

BULLETIN No. 181—SULPHITE OF SODA (GLAUBER'S SALT.)

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.			DISTRICT OF ST. HYACINTHE, J. C. ROULEAU, INSPECTOR.						
Apr. 23	Sulphate of Soda (Glauber's Salt.)	1045	Dr. W. Lord, Granby	½ lb.	5	Unknown		None	1045
" 29	" "	1046	J. C. Sutherland, Richmond.	½ "	5	Lymans Ltd., Montreal		"	1046
" 29	" "	1048	Pharmacie Missicotte, Victoriaville.	½ "	5	Unknown		"	1048
May 6	" "	1049	J. F. Flint, Rock Island.	½ "	25	"		"	1049
" 11	" "	1050	Dr. J. A. Gelinas, St. Guillaume,	½ "	13	Chapman & Dart, Mont'l		"	1050
" 18	" "	1051	Dr. Sylvestre, Sorel	½ "	10	W. M. Evans & Co., Montreal.		"	1051
" 25	" "	1052	Dr. J. A. Viger, St. Hyacinthe.	½ "	5	Lymans Ltd., Montreal		"	1052
" 25	" "	1053	Pharmacie St. Jacques, St. Hyacinthe.	½ "	5	" "		"	1053
" 26	" "	1054	Dr. Comeau, Farnham	½ "	10	" "		"	1054
1909.			DISTRICT OF MONTREAL, J. J. COSTIGAN, INSPECTOR.						
Apr. 19	Sulphate of Soda (Glauber's Salt.)	40071	J. A. Godbout, 278 Craig St., Montreal.	½ lb.	7	Lymans Ltd		None	40071
" 19	" "	40072	Arthur Maillet, 621 Craig St., Montreal.	½ "	5	Unknown		"	40072
" 23	" "	40073	A. D. Munn, 201 St. Antoine St., Montreal.	½ "	15		Mercks	"	40073
" 23	" "	40074	Queneville & Guérin, 397 St. Antoine St., Mont'l	½ "	10			Less than 1 milligram	40074
" 26	" "	40075	A. L. Boucher, Joliette, P.Q.	½ "	25	Nat. Drug and Chem. Co., Montreal.		None	40075

"	26			40076	J. T. Gaudet, Joliette, P.Q.	½ "	10			"	40076
May	4			40077	John T. Lyons Co., Ltd., Montreal.	½ "	10			"	40077
"	4			40078	Leo. G. Ryan, Montreal.	½ "	5	Howards		Less than ½ milligram	40078
"	4			40079	J. H. Nault, Montreal	½ "	10	"		None	40079
"	4	"	"	40080	E. Ethier, Montreal	½ "	5	"		"	40080

1909. DISTRICT OF OTTAWA, J. A. RICKEY, INSPECTOR.

Mar.	19	Sulphate of Soda (Glauber's Salt.)		22951	F. W. Warwick, Buckingham.	½ lb.	5	Unknown		Less than ½ milligram	22951
"	19	"	"	22952	Dr. Wallace, Buckingham.	½ "	5	Lyman Sons & Co., Montreal.		None	22952
"	22	"	"	22953	Dr. A. Lyon, Shawville	½ "	5	Lymans Ltd., Montreal		"	22953
"	23	"	"	22954	Jas. Clark, Renfrew	½ "	5	" "		Less than ½ milligram	22954
"	23	"	"	22955	J. M. Plaunt Ltd., Renfrew.	½ "	5	Unknown		" "	22955
"	24	"	"	22956	Jos. Valiquette Co., Ltd., cor. York and Dalhousie Sts., Ottawa.	½ "	5	Ottawa Drug Co., Ottawa		Contains 7·9 "	22956
"	24	"	"	22957	Thos. Payment, Ottawa.	½ "	5	" "		Less than ½ "	22957
"	26	"	"	22958	E. D. Story, Ottawa	½ "	10	Unknown		" "	22958
"	26	"	"	22959	E. R. DeRosiers, Ottawa	½ "	5	Ottawa Drug Co., Ottawa		None	22959
"	26	"	"	22960	Estate of W. H. Roger,	½ "	10	Unknown		Less than ½ milligram	22960

1909. DISTRICT OF KINGSTON, JAS. HOGAN, INSPECTOR.

Mar.	17	Sulphate of Soda (Glauber's Salt.)		39481	H. Skinner, Kingston	½ lb.	2	Nat. Drug Co.		Less than ½ milligram	39481
"	17	"	"	39482	W. W. Gibson, Kingston	½ "	5	"		Less than 1 "	39482
"	22	"	"	39483	F. C. Clarke, Belleville	½ "	5	Unknown		None	39483
"	22	"	"	39484	R. Templeton, Belleville.	½ "	5	Nat. Drug Co.		"	39484
"	22	"	"	39485	A. J. Gould, Cobourg	½ "	3	Lyman Bros., Toronto		"	39485
"	22	"	"	39486	O. S. Johns, Cobourg	½ "	5	Nat. Drug Co.		"	39486
"	23	"	"	39487	McDermid & Jury, Peterboro'.	½ "	5	Lyman Bros., Toronto		Less than ½ milligram	39487
"	23	"	"	39488	L. A. Payne, Peterboro'.	½ "	3	Drug Trading Co., Toronto.		" "	39488
"	23	"	"	39489	J. D. Tully, Peterboro'.	½ "	5	Unknown		None	39489
"	23	"	"	39490	Nugent Drug Co., Peterboro'.	½ "	5	Lyman Bros., Toronto		Less than ½ milligram	39490

BULLETIN No. 181—SULPHATE OF SODA (GLAUBER'S SALT).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspectors' Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Samples.
1909.			DISTRICT OF TORONTO—H. J. DAGER—INSPECTOR.						
April 7	Sulphate of Soda (Glaubers Salt)	36236	H. Spencer Case, Hamilton.	½ lb.	10	Dom. Drug Co., Hamilton.		Less than ½ milligram	36236
" 8	" "	36237	Rutherford & Co., Aurora	½ "	5	National Drug & Chem. Co., Toronto.		" "	36237
" 8	" "	36238	Norman L. Rogers Co., Ltd., Newmarket.	½ "	3	" " "		None	36238
" 12	" "	36239	W. L. Campbell, Bradford.	½ "	2	Unknown		"	36239
" 13	" "	36240	D. H. McLaren, Barrie.	½ "	5	National Drug and Chem. Co., Hamilton.		"	36240
" 14	" "	36241	J. R. Hipwell, Alliston.	½ "	2	Drug Trading Co., Toronto.		Less than ½ milligram	36241
" 14	" "	36242	Dr. Jos. Campbell, Tottenham.	½ "	3	Shuttleworth Chemical Co., Ltd., Toronto.		None	36242
" 16	" "	36243	Edward J. Scott, Georgetown.	½ "	3	J. Winer & Co., Ltd., Hamilton.		"	36243
" 17	" "	36244	A. D. Jupp, Toronto.	½ "	5	Lyman Bros. & Co., Toronto		"	36244
" 19	" "	36245	City Hall Drug Store, (F. F. Carly, Mgr.), Tor'to	½ "	3	Drug Trading Co., Toronto.		"	36245
			DISTRICT OF LONDON—T. KIDD, INSPECTOR.						
Mar. 25	Sulphate of Soda (Glaubers Salt)	30592	A. B. Petrie, Guelph.	¾ "	5	McArthur & Connell, Montreal.		Less than ½ milligram	30592
" 31	" "	30613	H. C. Dunlop, Goderich.	¾ "	5	Unknown		" "	30613
April 1	" "	30622	F. H. Walleys, Wingham	¾ "	5	National Drug Co., Toronto.		None	30622
" 2	" "	30629	J. Livinston, Listowell.	½ "	5	" " "		"	30629
" 7	" "	30630	W. A. McIntyre, St. Mary's.	¾ "	11	Nat. Drug. Co., London, Ont.		"	30630
" 7	" "	30632	Frank H. Smith, St. Mary's.	¾ "	5	Lyman Bros., Toronto		"	30632
" 7	" "	30635	J. McLeans, St. Mary's.	¾ "	5	" "		"	30635
" 7	" "	30640	George J. Waugh, Stratford.	¾ "	5	" "		Less than ½ milligram	30640

"	8			39641	W. B. Barley, Mitchell			5	Unknown		39641
"	8			39642	S. A. Hodge, Mitchell.	¼	"	5	Nat. Drug Co., London, Ont.		39642

DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

April	8	Sulphate of Soda (Glaubers Salt)		34781	B. A. Mitchell, London, Ont.	½	"	5	Nat. Drug Co.	None	34781
"	8	"	"	34786	Meek & Vinning, London, Ont.	½	"	5	"	"	34786
"	8	"	"	34791	E. W. Boyle, London East, Ont.	½	"	10	"	"	34791
"	10	"	"	34794	C. E. Perry, London, Ont.	½	"	10	"	"	34794
"	14	"	"	34796	F. P. Reynolds, St. Thomas.	½	"	5	"	"	34796
"	14	"	"	35902	F. A. Lemon & Co., St. Thomas.	½	"	5	Drug Trading Co., Toronto.	"	35902
"	15	"	"	35909	H. W. Thompson, Strathroy.	½	"	15	Unknown	"	35909
"	15	"	"	35910	M. Maude Orchard, Strathroy.	½	"	5	Nat. Drug Co., London, Ont.	Less than ½ milligram	35910
"	16	"	"	35914	McFarlane & Co., Glencoe.	½	"	5	" " "	None	35914
"	16	"	"	35915	I. Waldren, London South, Ont.	½	"	5	" " "	Less than ½ Milligram	35915
"	16	"	"	35916	Wm. Robinson, London South, Ont.	½	"	5	" " "	None	35916

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

April	14	Sulphate of Soda (Glaubers Salt)		35846	D. A. Fraser & Co., Winnipeg,	½	lb.	5	Unknown	None	35846
"	15	"	"	35847	J. R. Robinson, Winnipeg.	½	"	20	Mallinckrodt Chem. Works, St. Louis & New York.	Less than ½ milligram	35847
"	15	"	"	35848	Colcleugh & Co., Winnipeg.	½	"	35	Unknown	None	35848
"	16	"	"	35849	G. E. Rogers, Winnipeg.	½	"	20	Nat. Drug. and Chem. Co., Montreal.	National "	35849
"	16	"	"	35850	F. P. Seale, Winnipeg.	½	"	10	Martin, Bole, Wynne & Co., Winnipeg.	"	35850
"	19	"		35851	Dr. J. M. Eaton & Co., Carberry.	½	"	5	The Bole Drug Co., Winnipeg.	"	38851
"	20	"	"	35852	Cowan's Drug Store, Portage La Prairie.	½	"	5	Unknown	"	35852
"	20	"	"	35853	B. M. Canniff, Portage La Prairie.	½	"	5	The Bole Drug Co., Winnipeg.	"	35853
"	20	"	"	35854	J. R. Hill, Portage La Prairie.	½	"	5	The Martin, Bole & Wynne Co., Winnipeg.	"	35854
"	21	"	"	35855	Elmwood Drug Store, Elmwood, P.O., W'peg	½	"	5	Unknown	"	35855

BULLETIN No. 181—SULPHATE OF SODA (GLAUBER'S SALTS).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.			DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.						
April 27	Sulphate of Soda (Glauber's Salt)	35511	C. S. Pringle Medicine Hat.	½ lb	10	Lyman Sons & Co., Montreal.		Less than 1 milligram	35511
" 29	" "	35512	G. H. Grayden, Edmonton.	½ "	25	E. Merck, Darmstadt, Ger.		None	35512
" 29	" "	35513	T. G. Carson, Edmonton	½ "	10	Bole Drug Co., Calgary		Less than ½ milligram	35513
" 29	" "	35514	A. Archibald, Edmonton	½ "	10	Lyman Sons & Co., Montreal.		None	35514
" 29	" "	35515	Algonquin Pharmacy, Edmonton.	½ "	35	Unknown		"	35515
" 29	" "	35516	Edmonton Drug Co., Edmonton.	½ "	15	Unknown		"	35516
" 29	" "	35517	J. H. Lives, Edmonton	½ "	15	Mallinckrodt Chem. Works, Germany.		"	35517
" 29	" "	35518	Macdonald's Pharmacy, Edmonton.	½ "	10	Lyman Sons & Co., Montreal.		Less than 1 milligram	35518
" 29	" "	35519	E. M. Carpenter, Edmonton.	½ "	10	" "		None	35519
" 29	" "	35520	Laval Pharmacy, Edmonton.	½ "	15	Bole Drug Co., Winnipeg		"	35520
1909.			DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.						
Mar. 26	Sulphate of Soda (Glauber's Salt)	37614	Brown & Beaton, Vancouver.	½ lb	10	Henderson Bros., Vancouver, B.C.		None	37614
" 26	" "	37615	W. E. Law, Vancouver	½ "	10	" "		Less than ½ milligram	37615
" 26	" "	37616	C. Muddell, Vancouver	½ "	25	" "		None	37616
" 26	" "	37617	C. Nelson, Vancouver	½ "	25	" "		Contains 3 milligrams	37617
" 26	" "	37618	Laws Drug Store, Vancouver.	½ "	2	" "		None	37618

"	26	"	"	..	37618	Laws Drug Store, Vancouver.	½ " ..	25	"	.....	.....
"	26	"	"	..	37619	H. Ferguson, Vancouver	½ " ..	20	"	.....	Less than ½ milligram.	37619
"	26	"	"	..	37620	Fairview Drug Store, Vancouver.	½ " ..	25	Nat. Drug & Chemical Co.	.....	None.....	37620
"	26	"	"	..	37621	L. G. Henderson, Mount Pleasant.	½ " ..	20	Henderson Bros., Vancouver, B.C.	.....	Less than ½ milligram...	37621
"	26	"	"	..	37622	Independent Drug Store, Vancouver.	½ " ..	20	" "	.....	Contains 5 milligrams...	37622
"	26	"	"	..	37623	McDowell, Atkins & Watson, Vancouver.	½ " ..	10	" "	.....	Contains 10.5 milligrams.	37623

1909. **DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.**

May	11	Sulphate of Soda (Glauber's Salt)		..	39341	F. J. Williams, Victoria, B.C.	½ lb ..	25	Nat. Drug & Chemical Co., Montreal, Que.	.....	None.....	39341
"	11	"	"	..	39342	Dean & Hiscocks, Victoria, B.C.	½ " ..	20	Henderson Bros., Victoria, B.C.	.....	"	39342
"	11	"	"	..	39343	Wm. Jackson & Co, Victoria, B.C.	½ " ..	25	Lymans, Ltd., Montreal, Que.	.....	"	39343
"	11	"	"	..	39344	D. E. Campbell, Victoria, B.C.	½ " .	40	Henderson Bros., Victoria, B.C.	.....	"	39344
"	11	"	"	..	39345	W. S. Terry, Victoria, B.C.	½ " ..	20	" "	.....	Less than ½ milligram...	39345
"	12	"	"	..	39346	John Cochrane, Victoria, B.C	½ " ..	20	" "	.....	None.....	39346
"	13	"	"	..	39347	Cyrus H. Bower, Victoria, B.C.	½ " ..	20	Lymans, Ltd., Montreal, Que.	.....	"	39347
"	13	"	"	..	39348	G. A. Fraser, Victoria, B.C.	½ " ..	20	Henderson Bros., Victoria, B.C.	.....	Less than 1 milligram...	39348
"	13	"	"	..	39349	B. C. Drug Co., Victoria, B.C.	½ " .	20	" "	.....	" "	39349
"	13	"	"	..	39350	Thos. Shotbold, Victoria, B.C.	½ " ..	15	" "	.....	None.....	39350

BULLETIN No. 181—PHOSPHATE OF SODA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grains.	No. of Sample.
1909.			DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.						
April 16	Phosphate of Soda	33952	C. A. Barnstead, Halifax, N.S.	½ lb	15	Lyman Sons & Co., Montreal.		Less than 1 milligram	33952
" 17	" "	33953	National Drug and Chemical Co., Halifax, N.S.	½ "	15	Vendors		" "	33953
" 17	" "	33954	R. J. Philips, Halifax, N.S	½ "	20	Thompson Chemical Co., Baltimore, Md.		None	33954
" 19	" "	33955	J. A. Craig, Yarmouth, N.S.	½ "	20	Mallinckrodt, New York		"	33955
" 19	" "	33956	R. F. Guest, Yarmouth, N.S.	½ "	20	National Drug and Chemical Co., St. John, N.B.		"	33956
" 20	" "	33957	F. C. Churchill, Wolfville, N.S.	½ "	15	Thompson Chemical Co., Baltimore, Md.		"	33957
" 20	" "	33958	A. V. Rand, Wolfville, N.S.	½ "	25	A. Boake Roberts Co., London, Eng.		"	33958
" 22	" "	33959	W. F. Odell, Truro, N.S.	½ "	25	Lyman Sons & Co., Montreal.		"	33959
" 23	" "	33960	Buckley Bros., Halifax, N.S	½ "	15	National Drug and Chemical Co., Halifax, N.S.		"	33960
" 23	" "	33961	C. E. Huggins, Halifax, N.S.	½ "	15	National Drug and Chemical Co., Halifax, N.S.		"	33961
1909.			DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.						
April 15	Phosphate of Soda	38511	P. N. Enman, Summerside.	½ lb	15	National Drug and Chemical Co. Halifax.		None	38511
" 15	" "	38512	A. W. P. Gourin, Summerside.	½ "	20	Lyman Kr[illegible] & Co., Montreal.		"	38512
" 15	" "	38513	Edgar Keir, Kensington.	½ "	15	National Drug Co., Halifax.		"	38513
" 15	" "	38514	Johnson & Johnson, Charlottetown.	½ "	15	Thompson Chemical Co., Baltimore, Md.		"	38514
" 15	" "	38515	C. D. Rankin, Charlottetown.	½ "	12	National Drug and Chemical Co., Halifax.		"	38515
" 15	" "	38516	A. W. Reddin, Charlottetown.	½ "	15	Schoell Kopp Hartford & Hanna Co., New York.		"	38516

			38517	G. E. Hughes, Charlottetown.			15	National Drug Co., Halifax.		38517
"	15	"	"	38518	J. G. Jamieson, Charlottetown.	½ "	20	Lyman Sons & Co., Montreal.	"	38518
"	15	"	"	38519	McDonald & McKinnon, Charlottetown.	½ "	15	Lymans Ltd., Montreal	"	38519
"	15	"	"	38520	Reddin Bros., Charlottetown.	½ "	15	Lyman Sons & Co., Montreal.	"	38520

1909. **DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.**

Mar.	25	Phosphate of Soda	29942	G. A. Moore, St. John, N.B.	½ lb.	30	E. Merck, Darmstadt	None	22942
"	26	" "	29943	Wm. Hawker & Son, St. John, N.B.	1 "	30	Mallinckrodt Chemical Works, New York.	"	22943
April	6	" "	29944	R. T. Mack, Fredericton, N.B.	½ "	16	The National Drug and Chemical Co., St. John, N.B.	"	22944
"	6	" "	29945	John M. Wiley, Fredericton, N.B.	½ "	20	Unknown	"	22945
"	7	" "	29946	E. W. Main, Woodstock, N.B.	½ "	15	Mallinckrodt Chemical Works, New York.	Less than 2 milligram	22946
"	7	" "	29947	Garden Bros., Woodstock, N.B.	½ "	30	Lyman Sons & Co., Montreal.	" "	22947
"	7	" "	29949	D. W. C. Stevens, Woodstock, N.B.	1 "	30	Thomson Chemical Co., Baltimore, Md., U.S.	None	22949
"	15	" "	29950	J. McD. Cooke, Moncton, N.B.	½ "	20	National Drug and Chemical Co., Montreal.	"	22950
"	16	" "	29951	Thos. J. Durick, Newcastle, N.B.	½ "	25	Mallinckrodt Chemical Works, New York. 'M. C. W.'	"	22951
"	19	" "	29952	Thomas Wran, Campbellton, N.I	½ "	15	Lymans Ltd., Montreal.	"	22952

1909. **DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.**

April	20	Phosphate of Soda	36718	W. Brunette & Cie, Quebec.	½ lb.	10	Provident Chemical Co., U.S.	None	36718
"	20	" "	36719	L. E. Martel, Quebec	½ "	15	National Drug Co., Montreal	"	36719
"	20	" "	36720	D. R. Gagnon, Quebec	½ "	20	Ed. Morin & Cie., Quebec	Less than ½ milligram	36720
"	20	" "	36721	V. Giroux, Quebec	½ "	10	Kerry Watson & Co, Montreal.	None	36721
"	20	" "	36722	Laroche & Corry, Quebec.	½ "	40	Lyman & Son.	"	36722
"	20	" "	36723	R. B. Roger, Quebec	1 "	25	Kerry Watson & Co., Montreal.	Less than ½ milligram	36723
"	20	" "	36724	T. E. Dube, Quebec	1 "	45	Unknown	" ½ "	36724
"	20	" "	36725	C. T. Deslisle, Quebec	1 "	25	National Drug Co., Montreal	None	36725
"	20	" "	36726	A. L. Jolicoeur, Quebec	1 "	10	Lyman & Son, Montreal	"	36726
"	20	" "	36727	F. E. Gauvreau & Freres, Quebec.	1 "	45	Lyman & Son, Montreal		36727

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
1909.	DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.								
April 21	Phosphate of Soda	1056	Dr. Grey, St. Jean	½ lb.	20	Lymans, Ltd., Montreal	Extra pure crystals, Ph. Bull. 98.	Less than ½ milligram	1056
" 22	" "	1057	G. Dozais, Grahby	½ "	35	E. Merck, Germany		None	1057
" 29	" "	1058	J. C. Sutherland, Richmond	½ "	25	Lymans, Ltd., Montreal		"	1058
May 5	" "	1059	Fraser's Drug Store, Sherbrooke.	½ "	15	" "		"	1059
" 5	" "	1060	W. J. H. McKindsey, Lennoxville.	1 "	30	National Drug, Montreal	Pure granular	"	1060
" 25	" "	1061	Dr. J. A. Viger, St. Hyacinthe.	½ "	15	Lymans, Ltd., Montreal		"	1061
" 25	" "	1062	Phar. St. Jacques, St. Hyacinthe.	1 "	25	National Drug, Montreal		"	1062
" 25	" "	1063	Phar. Brodeur, St. Hyacinthe.	½ "	15	" "		"	1063
" 26	" "	1064	A. G. H. Béique, Magog.	½ "	15	Lymans, Ltd., Montreal		"	1064
" 27	" "	1065	Wright & Co., St. Jean	½ "	15	" "		"	1065
1909.	DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.								
April 19	Phosphate of Soda	40081	Arthur Maillet, Montreal	½ lb.	5	Unknown		None	40081
" 19	" "	40082	A. E. Gravelle, Montreal	½ "	13	"		"	40082
" 23	" "	40083	Dr. J. E. St. Onge, Valleyfield, P.Q.	½ "	15			Less than ½ milligram	40083
" 23	" "	40084	Quenneville & Guerin, Montreal.	½ "	15			None	40084
" 26	" "	40085	J. T. Gaudet, Joliette, P.Q.	½ "	35	Lymans, Ltd		"	40085
May 4	" "	40086	J. H. Nault, Montreal	½ "	20	Merck		"	40086

"	26	"	"	.....	40085	J. P. Gaudet, Bonette, P.Q.	½	" ..	30	Lymans, Ltd.		
May	4	"	"	.....	40086	J. H. Nault, Montreal..	½	" ..	20	Merck.....	"	40086
"	4				40087	E. Ethier, Montreal. ...	½	" .	25	Lymans, Ltd		40087
"	4	.			40088	J. A. Asselin, Montreal.	½	" .	10		"	40088
"	4	"		..	40089	Louis Fortier, Montreal	½	" ..	20		"	40089

1909. DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Mar.	16	Phosphate of Soda.....	22961	Pharmacie Canadiènne, Hull.	½ lb..	15	Unknown.....	None.....	22961
"	17	" "	22962	H. Therien, Hull.....	½ " ..	20	"	"	22962
"	22	" "	22963	Dr. A. Lyon, Shawville.	½ " ..	15	Lymans, Ltd., Montreal ..	"	22963
"	23	" "	22964	Jas. Clark, Renfrew....	½ " ..	15	" "	"	22964
"	24	" "	22965	Jos. Valiquette Co., Ltd., Ottawa.	½ " ..	20	National Drug & Chemical Co., Ottawa.	"	22965
"	23	" "	22966	J. M. Plaunt, Ltd., Renfrew.	½ " ..	20	Lyman Sons & Co., Montreal	Less than ½ milligram...	22966
"	24	" "	22967	Thos. Payment, Ottawa.	½ " ..	20	Ottawa Drug Co, Ottawa..	"	22967
"	25	" " ..	22968	E. D. Story, Ottawa....	½ " ..	20	Unknown.....	"	22968
"	26	" " ...	22969	E. R. DesRosiers, Ottawa	½ " ..	15	Ottawa Drug Co., Ottawa..	"	22969
"	26	" "	22970	Estate W. H. Roger, Ottawa.	½ " ..	20	Unknown.....	"	22970

1909. DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

Mar.	17	Phosphate of Soda.....	39491	H. Skinner, Kingston...	½ lb..	8	National Drug Co.....	None...	39491
"	17	" "	39492	A. S. Chown, Kingston.	½ " ..	10	Lyman & Sons, Montreal...	Less than ½ milligram...	39492
"	18	" "	39493	W. W. Gibson, Kingston.	½ " ..	15	National Drug Co	" " " ...	39493
"	22	" "	39494	F. C. Clarke, Belleville..	½ " ..	15	" "	None.....	39494
"	22	" "	39495	R. Templeton, Belleville.	½ " ..	10	Lyman & Sons, Montreal...	"	39495
"	22	" "	39496	O. G. Johns, Cobourg...	½ " ..	15	National Drug Co.....	"	39496
"	22	" " . .	39497	A. J. Gould, Cobourg...	½ " ..	15	E. G. West, Toronto.....	Less than ½ milligram..	39497
"	22	" "	39498	C. J. Webster, Cobourg	½ " ..	15	" "	None.....	39498
"	23	" "	39499	McDermid & Jury, Peterboro.	½ " ..	15	Drug Trading Co., Toronto	"	39499
"	23	" "	39500	L. A. Payne, Peterboro..	½ " ..	15	National Drug Co	Less than 1 milligram...	39500

BULLETIN No. 181.—PHOSPHATE OF SODA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.									
April 7	Phosphate of Soda	36246	J. D. Morrison, Hamilton.	½ lb	13	Winer & Co., Hamilton		None	36246
" 8	"	36247	F. E. York, Aurora	½ "	20	National Drug and Chemical Co., Ltd., 'Na-Dru-Co.', Toronto.		"	36247
" 8	"	36248	R. J. Y. Broughton, New Market.	½ "	15	Mallinckrodt Chem. Works, 'M. C. Co.', St. Louis, & New York.		Less than 1 milligram	36248
" 12	"	36249	S. Oldham, Branford	½ "	10	W. R. Campbell, Bradford		None	36249
" 13	"	36250	H. G. Robertson, Barrie.	½ "	13	Dominion Drug Co., Ltd., Hamilton.		"	36250
" 14	"	36251	Brown Bros., Tottenham	½ "	15	Lyman Bros. & Co., Ltd., Toronto.		"	36251
" 20	"	36252	W. R. Hoar, Toronto	½ "	15	Unknown		Less than ½ milligram	36252
" 20	"	36253	J. H. Hutty, Yonge St., Toronto.	½ "	15	Mallinckrodt Chem. Works, 'M. C. Co.', St. Louis, & New York.		None	36253
" 20	"	36254	Chas. J. Stoddart, Toronto.	½ "	15	National Drug Co., Ltd. Toronto.		"	36254
" 20	"	36255	W. H. Andrews, Toronto	½ "	15	Drug Trading Co., Ltd., 'M. C. Co.', Toronto.		"	36255
DISTRICT OF LONDON—T. KIDD, INSPECTOR.									
Mar. 25	Phosphate of Soda	30594	J. D. McKee, Guelph	½ lb	29	Dom. Drug. Co., Hamilton		Less than ½ milligram	30594
April 1	"	30619	Walter McKibbon, Wingham.	1 "	35	Drug Trading Co., Toronto.		None	30619
" 2	"	30628	J. Livinston, Listowell	1 "	30	National Drug Co., Toronto.		"	30628
" 13	"	30643	J. H. Schmidt, Berlin	¾ "	25	" "		"	30643
" 13	"	30644	A. J. Roose, Berlin	¾ "	15	" "		"	30644
" 13	"	30645	Clark Bros., Berlin	¾ "	25	Lyman Bros., Toronto		"	30645
" 15	"	30646	Alexander Stewart, Guelph.	¾ "	27	Nat. Drug Co., Hamilton		"	30646

"	15	"	.....	30647	A. Petrie, Guelph	¾ " ..	25	Mallincrokdt Chem. Works, M.C. Co.', St. Louis & N.Y.	.....	"	30647
"	15	"	.....	30648	J. B. Broadfoot, Guelph.	¾ " ..	30	Howard & Sons, 'Howards,' London, Eng.	.....	"	30648
	15	"	.....	30649	M. Burgardis, Guelph...	¾ " ..	25	Nat. Drug. Co., Hamilton..	.....	"	30649

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

April	8	Phosphate of Soda.....	34782	E. L. Guillemont, London.	½ " ..	10	National Drug Co.....	.....	None.....	34782
"	8	"	34787	M. Sumner, London	½ " ..	15	"	.....	"	34787
"	8	"	34789	A. D. Bruce....	½ " ..	15	Unknown	.....	"	34789
"	8	"	34790	H. J. Childs, London East.	½ " ..	15	National Drug Co.....	.....	"	34790
"	10	"	34793	M. B. Percival, London, Ont.	½ " ..	20	"	.....	Less than ½ milligram...	34793
"	14	"	34797	G. H. Small, St. Thomas	½ " ..	20	"	.....	None..	34797
"	14	"	35903	Wm. H. Taylor, St. Thomas.	½ " ..	20	National Drug Co., London, Ont.	.....	"	35903
"	15	"	35908	W. H. Stepler, Strathroy.	½ " ..	20	Unknown.....	.....	"	35908
"	16	"	35913	J. A. Scott, Glencoe	½ " ..	20	National Drug Co., London, Ont.	.....	"	35913

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

April	15	Phosphate of Soda.....	35856	West End Drug Stores, Winnipeg	½ lb ..	15	Unknown	.....	None.....	35856
"	15	"	35857	Baird's Drug Store, Winnipeg.	½ " ..	20	N. C Polson & Co., Kingston	.....	"	35857
"	15	"	35858	W. W. McKeague, Winnipeg.	½ " ..	25	Unknown	.....	Less than 1 milligram...	35858
"	15	"	35859	E. Nesbitt, Winnipeg...	½ " ..	25	National Drug Co., Montreal.	.....	" ½ " ...	35859
"	15	"	3586	D. W. Bradshaw, Winnipeg.	½ " ..	25	Unknown	.....	" ½ " ...	35860
"	15	"	35861	R. J. Pelton, Winnipeg.	½ " ..	25	The Bole Drug Co., Winnipeg.	.....	None.....	35861
"	16	"	35862	The Gordon Mitchell Drug Co., Winnipeg.	½ " ..	15	Howard & Sons, London, Eng.	.....	Loss than ½ milligram...	35862
"	16	"	35863	Pulford Drug Co., Winnipeg.	½ " ..	20	E. Merck, 'Mercks' ', Germany.	.....	" ½ " ...	35863
"	16	"	35864	Poyntz & Co., Winnipeg.	½ " ..	15	Thomson Chem. Co., Baltimore, U.S.	.....	None.....	35864
"	16	"	35865	Connell & Co., Winnipeg.	½ " ..	15	J. Winer & Co., Hamilton..	.....	Less than ½ milligram...	35865

BULLETIN No. 181.—PHOSPHATE OF SODA.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis, Arsenic per 100 Grams.	No. of Sample.
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.									
April 27	Phosphate of Soda	35521	E. M. Cawker, Medicine Hat.	½ lb.	40	Merck & Co., New York		None	35521
" 27	" "	35522	C. S. Pringle, Medicine Hat.	"	"	Lyman, Sons & Co., Montreal.		None	35522
" 27	" "	35523	B. F. Souch, Medicine Hat.	"	"	Nat. Drug & Chem. Co., Winnipeg.		None	35523
" 29	" "	35524	G. H. Graydon, Edmonton.	"	25	Mallinckrodt Chem. Works, Germany.		None	35524
" 29	" "	35525	T. G. Carson, Edmonton.	"	20	J. Winer & Co., Hamilton.		None	35525
" 29	" "	35526	A. Archibald, Edmonton	"	"	Mallinckrodt Chem. Works, Germany.		None	35526
" 29	" "	35527	Edmonton Drug Co., Edmonton.	"	"	Lyman, Sons & Co., Montreal.		None	35527
29	" "	35528	J. H. Lives, Edmonton.	"	25	N. C. Polson & Co., Kingston.		None	35528
29	" "	35529	E. M. Carpenter, Edmonton.	"	"	Lyman, Sons & Co., Montreal.		None	35529
" 29	" "	35530	Laval Pharmacy, Edmonton.	"	15	N. C. Polson & Co., Kingston.		None	35530
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.									
Mar. 29	Phosphate of Soda	37624	F. J. Mackenzie, New Westminster.	½ lb.	25	J. Winer & Co., Hamilton.		None	37624
" 29	" "	37625	T. A. Muir, New Westminster.	"	"	Henderson Bros., Vancouver		None	37625
" 29	" "	37626	D. S. Curtis, New Westminster.	"	"	Henderson Bros., Vancouver		Less than ½ milligram.	37626
" 29	" "	37627	H. Ryan, New Westminster.	"	"	Henderson Bros., Vancouver		Less than ½ milligram.	37627
" 29	"	37628	J. Houghton, Vancouver	"	"	Henderson Bros., Vancouver		None	37628

"	29	"	"	.....	37627	H. Ryan, New Westminster.	"	" ..	Henderson Bros., Vancouver	.....	None .....
"	29	"		.....	37628	J. Houghton, Vancouver	"	" ..	Henderson Bros., Vancouver	.....	None .....
"	30	"	"	.....	37629	Manhatten Pharmacy, Vancouver.	"	15..	Henderson Bros., Vancouver	.....	Less than ½ milligram.
"	30	"	"	.....	37630	J. B. Boyle (Kitsilano), Vancouver.	"	25..	Henderson Bros., Vancouver	.....	None.....
"	30	"	"	.....	37631	Cameron's Drug Store (Fairview), Vancouver.	"	" ..	Henderson Bros., Vancouver	.....	Less than ½ milligram.
"	30	"	"	.....	37632	R. M. Morrison, Vancouver.	"	15..	Henderson Bros., Vancouver	.....	None.....
"	31	"	"	.....	37633	Marrett & Reid (English Bay), Vancouver.	"	25..	Henderson Bros., Vancouver	.....	None.....

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

May	11	Phosphate of Soda.....		39351	F. J. Williams.....	½ lb..	25..	Mallinckrodt Chem. Works, St. Louis, U.S.A.	.....	None.....	39351
"	11	"	"	....	39352	Dean & Hiscocks.....	"	20..	Henderson Bros., Victoria, B.C.	.....	None.....	39352
"	11	"	"	.....	39353	Wm. Jackson & Co.....	"	25..	Lymans, Ltd., Montreal....	.....	Less than ½ milligram.	39353
"	12	"	"	.....	39354	D. E. Campbell.....	"	20..	Lymans, Ltd., Montreal....	.....	None.....	39354
"	12	"	"	.....	39355	W. S. Terry	"	" ..	Henderson Bros., Victoria, B.C.	.....	None.....	39355
"	13	"	"	.....	39356	John Cochrane.....	"	" .	Lymans, Ltd., Montreal....	.....	None.....	39356
"	13	"	"	.....	39357	Cyrus H. Bowes.....	"	" ..	Lymans, Ltd., Montreal....	.....	Less than ½ milligram.	39357
"	13	"	"	.....	39358	Geo. A. Fraser.....	"	" ..	Henderson Bros., Victoria, B.C.	.....	Less than ½ milligram.	39358
"	13	"	"	.....	39359	B. C. Drug Co.....	"	" ..	Henderson Bros., Victoria, B.C.	.....	None.....	39359
"	13	"	"	.....	39360	Thos. Shotbolt.....	"	15..	Mallinckrodt Chem. Works, New York, U.S.A.	.....	None.....	39360